



# CONSTRUCTION EQUIPMENT

## 21 VOLVO L90H 25852 - DIESEL ENGINE



**Sample No:** VCP405784  
**Oil Type:** MOBIL DELVAC 1300 SUPER15W40  
**Job No:** 21



### SAMPLE INFORMATION

Sample Number	<b>VCP405784</b>	VCP366253	VCP366256	VCP324030
Sample Date	<b>25 Jul 2023</b>	02 Jun 2023	01 May 2023	15 Mar 2023
Machine Hours	<b>9801</b>	9128	8672	8048
Oil Hours	<b>500</b>	500	400	400
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**PLEASANT RIVER LUMBER**  
 PO BOX 68  
 DOVER FOXCROFT, ME  
 US 04426  
 Contact: BURLEY HIGGINS  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.0	13.0	13.1
Base Number (BN)	mg KOH/g	<b>9.8</b>	9.8	9.5	8.6
Oxidation (PA)	%	<b>57</b>	54	55	51

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.6</b>	0.4	0.4	0.3
Nitration (PA)	%	<b>63</b>	55	58	52
Sulfation (PA)	%	<b>53</b>	50	52	47
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	3	3	4
Sodium	ppm	<b>0</b>	2	2	1
Potassium	ppm	<b>&lt;1</b>	0	<1	2

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

### WEAR METALS

Iron	ppm	<b>7</b>	7	8	8
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	3	<1	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>57</b>	61	61	60
Nickel	ppm	<b>0</b>	0	0	1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	<1

### ADDITIVES

Calcium	ppm	<b>1142</b>	1081	1094	1037
Magnesium	ppm	<b>1036</b>	985	958	965
Zinc	ppm	<b>1239</b>	1267	1273	1289
Phosphorus	ppm	<b>1137</b>	1036	1016	1046
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	1	2	3

**Depot:** PLEDOV  
**Unique No:** 10790954  
**Signed:** Don Baldrige  
**Report Date:** 19 Dec 2023



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## GRAPHS

